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APPLICATION NO.	ATION NO. FILING DATE FIRST NAMED INVE		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/024,922	12/19/2001	Dong-Jun Sin	678-728 (P9744)	5554	
28249	7590 03/11/2005		EXAMINER		
DILWORTH & BARRESE, LLP			SMITH, SHEILA B		
	DVINGTON BLVD. E, NY 11553		ART UNIT	PAPER NUMBER	
UNIONDALI	5, 141 11555		2681		

DATE MAILED: 03/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	ion No.	Applicant(s)				
		10/024,9	22	SIN, DONG-JUN				
Office Action Summary		Examine	r	Art Unit				
		Sheila B.	Smith	2681				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE MAILI - Extensions o after SIX (6) - If the period of	ENED STATUTORY PERIOD FO NG DATE OF THIS COMMUNION of time may be available under the provisions of MONTHS from the mailing date of this common for reply specified above is less than thirty (30 for reply is specified above, the maximum stated by within the set or extended period for reply served by the Office later than three months at that term adjustment. See 37 CFR 1.704(b).	CATION.  of 37 CFR 1.136(a). In no exunication.  of days, a reply within the statutory period will apply and will, by statute, cause the apply.	vent, however, may a re tutory minimum of thirty vill expire SIX (6) MONT plication to become AB/	eply be timely filed  (30) days will be considered timel  (THS from the mailing date of this of  ANDONED (35 U.S.C. § 133).				
Status								
1) Responsive to communication(s) filed on 12 October 2004.								
2a)☐ This	action is FINAL. 2	b)⊠ This action is r	non-final.					
<i>,</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of	Claims							
4a) O 5)⊠ Clain 6)⊠ Clain 7)□ Clain	Claim(s) 1-4 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) 4 is/are allowed.  Claim(s) 1-3 is/are rejected.							
Application Pa	apers							
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under	35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
Attachment(s)			_					
	eferences Cited (PTO-892)	TO 040)		ummary (PTO-413) )/Mail Date				
3) Information	aftsperson's Patent Drawing Review (P' Disclosure Statement(s) (PTO-1449 or I /Mail Date			formal Patent Application (PT	O-152)			

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-3 rejected under 35 U.S.C. 103(a) as being unpatentable over Sawyer et al.
   (U.S. Patent Number 5,946,629) in view of Shirai (U.S. Patent Number 6,104,924).

Regarding claim 1, Sawyer et al. discloses all the claimed invention as set fourth in the instant application, in addition Sawyer et al. discloses a cellular telephone network having short message service interaction with other networks, further Sawyer et al. discloses forwarding an SMS (Short Message Service) message in a mobile communication system having at least one MSC (18)(Mobile Switching Center) for providing communication services to a plurality of mobile terminals, and at least one MC (22)(Message Center) interconnecting with the MSC for providing an SMS (which reads on column 3 lines 13- 34), comprising the steps of: requesting transmission of an SMS message from a calling mobile terminal to the MC (which reads on column 3 lines 31- 34); transmitting the SMS message to the called mobile terminal if it is determined that the forwarding function is not set (which reads on column 3 lines 35- 45); however, Sawyer et al. fails to disclose determining whether a forwarding function is set for a called mobile terminal in the MC; and transmitting the SMS message to a destination mobile terminal if it is determined that the forwarding function is set.

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In the same field of endeavor, Shirai discloses a virtual terminal protocol using text messaging. Shirai further discloses the determining whether a forwarding function is set for a called mobile terminal in the MC (which reads on "the mobile station corresponding to a call forwarding operation in which the user of the mobile station selects one of the options displayed in the "call forward" top menu" as disclosed in column 3 lines 23-26); and transmitting the SMS message to a destination mobile terminal if it is determined that the forwarding function is set as disclosed in paragraph (which reads on column 2 lines 11-16).

Therefore, it would have been obvious to one of ordinary skill at the time the invention was made to modify Sawyer by specifically providing for determining whether a forwarding function is set for a called mobile terminal in the MC; and transmitting the SMS message to a destination mobile terminal if it is determined that the forwarding function is set as taught by Shirai for the purpose of forwarding received short messages to other devices or addresses.

Regarding claim 2, Sawyer et al. in view of Shirai discloses everything claimed, as applied above (see claim 1) additionally, Sawyer et al. discloses the requesting step comprises the steps of: requesting subscriber information of the called mobile terminal from an HLR (Home Location Register); searching for the subscriber information of the called mobile terminal in the HLR; and transmitting from the HLR to the MC the subscriber information of the destination terminal if it is determined that the forwarding function is set for the called mobile terminal (which reads on column 3 lines 26-45).

Regarding claim 3, Sawyer et al. discloses everything claimed, as applied above (see claim 1) additionally, Sawyer et al. discloses forwarding an SMS (Short Message Service) message in a mobile communication system having at least one MSC (Mobile Switching Center) for providing communication services to a plurality of mobile terminals, and at least one MC (Message Center) interconnecting with the MSC for providing an SMS, comprising the steps of: requesting transmission of an SMS message from a calling mobile terminal to a called MC via a calling MSC (which reads on column 3 lines 31-34); checking the subscriber information of a called mobile terminal in the called MC and requesting transmission of the SMS message from the MC (which reads on column 5 lines 1-10); searching for the subscriber information of the called mobile terminal (which reads on column 3 lines 47-56); requesting transmission of the SMS message from the called MC to a destination MC (which reads on column 4 lines 3-10); and checking the subscriber information of a destination mobile terminal in the destination MC and transmitting the SMS message from the destination MC to the destination mobile terminal (which reads on column 5 lines 1-10), however, Sawyer et al. fails to disclose determining whether a forwarding function is set for a called mobile terminal in the MC; and transmitting the SMS message to a destination mobile terminal if it is determined that the forwarding function is set.

In the same field of endeavor, Shirai discloses a cellular telephone with SMS message forwarding. Shirai further discloses the determining whether a forwarding function is set for a called mobile terminal in the MC (which reads on "the mobile station corresponding to a call forwarding operation in which the user of the mobile station selects one of the options displayed in the "call forward" top menu" as disclosed in column 3 lines 23-26); and transmitting the SMS

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message to a destination mobile terminal if it is determined that the forwarding function is set (which reads on column 2 lines 11-16).

Therefore, it would have been obvious to one of ordinary skill at the time the invention was made to modify Sawyer by specifically providing for determining whether a forwarding function is set for a called mobile terminal in the MC; and transmitting the SMS message to a destination mobile terminal if it is determined that the forwarding function is set as taught by Shirai for the purpose of forwarding received short messages to other devices or addresses.

## Allowable Subject Matter

- 2. Claim 4 is allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Regarding claim 4, The prior art of record considered alone or in combination neither anticipates nor renders obvious (a) converting the SMS message to a voice message and requesting establishment of a path to the destination terminal from the PSTN exchange; (b) and transmitting the converted voice message to the destination terminal after the PSTN establishes the path; (c) voice conversion server interconnecting with the PSTN exchange; and (d) determined that the forwarding function is set and a destination terminal is a PSTN phone.

The prior art of record provided numerous teachings of forwarding SMS messages. However, the prior art of record failed to specifically disclose establishment of a path to the destination terminal from the PSTN exchange; (b) and transmitting the converted voice message to the destination terminal after the PSTN establishes the path; (c) voice conversion server interconnecting with the PSTN exchange.

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Response to Arguments

Applicant's arguments with respect to claims 1-3 have been considered but are moot in 3.

view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sheila B. Smith whose telephone number is (703)305-0104. The

examiner can normally be reached on Monday-Thursday 6:00 am - 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Emmanuel Moise can be reached on 703-306-0003. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S. Smith 2, SA

March 7, 2005

PRIMARY EXAMINES